

## DEPARTMENT OF THE AIR FORCE

59TH MEDICAL WING (AETC) LACKLAND AIR FORCE BASE TEXAS

28 January 2016

MEMORANDUM FOR SGOZ

ATTN: CAPT BRYANT J. WEBBER

FROM: 59 MDW/SGVU/CC

SUBJECT: Professional Presentation Approval

- 1. Your presentations, entitled <u>Preventing Exertional Collapse and Death in Military Training</u> have been approved to be presented to <u>Preventive Medicine 2016 (Am Coll Prev Med annual conference)</u>, <u>Crystal City</u>, <u>VA</u>, <u>26 Feb 16</u> for release in accordance with MDWI 41-108, and has been assigned local file #<u>16074</u>.
- 2. Pertinent biographic information (name of author(s), title, etc.) has been entered into our computer file. Please advise us (phone or mail) that your article was published. At that time, we will need the name of the publishing company, month and year, issue volume of your published paper. It is important to update this information so that we can provide quality support for you, your department, and the Medical Center Commander. This information is used to document the scholarly activities of our professional staff and students, which is an essential component of Wilford Hall Ambulatory Surgical Center's (WHASC) internship and residency programs.
- 3. Please know that the 59th Clinical Research Division cannot pay for reprints ordered from the journal by the authors. In addition, publisher's charges, as well as any charges for color photos, covers for your reprints, or any distinctive specifications, must be coordinated with your department for funding.
- 4. Congratulations, and thank you for your efforts and time to contribute to the body of medical knowledge. Your contributions directly impact the success of the military mission.
- 5. We look forward to assisting you in your future publication/presentation efforts.

LINDA STEEL-GOODWIN, Col, USAF, BSC

Linda Steel-Goodwin

Director, Clinical Investigation & Research Support

	FROOESSING C	JF PROFESSIONAL	- MEDICAL R	ESEARCH PUBLICATIONS/PRES	ENTA	TIONS
TO:	Clinical Research Division/SGVU	FROM: (Name/Ran	FROM: (Name/Rank/Office Symbol)		P	ROTOCOL NUMBER:
	59th CSPG/SGVU)	Bryant J. Webb 559 THLS/SGC		AF, MC		N/A
PROT	OCOL TITLE	•				
N/A	(review presentation; no original	research)				
1. TITL	LE OF MATERIAL TO BE PUBLISHED	OR PRESENTED				
Preve	enting Exertional Collapse and De	ath in Military Ti	raining			
AGRE	THIS MATERIAL SUBJECT TO ANY LE ARCH AND DEVELPMENT AGREEMEN EMENT, ETC.? 'ES  V NO (NOTE: If the answer i	NT (CRADA), MATE	RIAL TRANS	FER AGREEMENT (MTA), INTELLE	CTUA	L PROERTY RIGHTS
4. MA	TERIAL IS FOR (Check appropriate box	or boxes for approva	al with this requ	est.) (ATTACH COPY OF MATERIA	AL TO	BE PUBLISHED/PRESENTED)
	PUBLICATION/JOURNAL (List intended	ed publication/journa	al)			
	PUBLISHED ABSTRACT (List intende	ed journal)				
	POSTER (To be demonstrated at mee	ating/Name of Meeting	ng, City, State	, and Date of Meeting)		
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	OTHER (Describe; Name of Meeting,	City, State, and Date	e of Meeting)			
			POINT OF C	ONTACT		
5. WHO	IS THE PRIMARY WHASC POINT OF	CONTACT? (Last.	, First, M.I.) (I	include email	DI	UTY PHONE/PAGER No.
Webb	er, Bryant J. (bryant.webber@us.a	af.mil)			6	71-4087
		AUTI	HORSHIP AND	CO-AUTHOR(S) (List in the order the	ey will	appear in the manuscript)
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	Primary/corresponding author Webber, Bryant J. O-3			559 THLS/ 559 MDG/ SGO	OG/ SGOZ	
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Bryant Webber, Capt			WEBBER.BRYANT.J.1270119383			17 Nov 2015
	ANDER'S PRINTED NAME, RANK		COMMANDE	ER'S SIGNATURE		DATE
Gwendolyn Foster, Maj			FOSTER.GWENDOLYN.A.1087836602			20 Nov 2015

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(Contact 292-7141 for email instructions) 1 1 3. DATE REVIEWED		16074		
27 Jan 2016		4. DATE FORWARDED	TO PA	
5. AUTHOR CONTACTED FOR RECOMMENDED OR NECESSARY CHANGES	NO YES (If y	es, give date)		□ N/A
6. COMMENTS APPROVED DISAPPR	ROVED			
The presentation is approved.				
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Rocky Calcote, PhD				
Clinical Research Administrator	CAL	COTE.ROCKY.D.117824	27 Jan 2016	
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OFFICE OF PUBLIC AFFAIRS (PA)	27 Jan 16		28 J	an 16
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YES NO COULD NOT BE REACHED				
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# Preventing Exertional Collapse and Death in Military Training



Bryant Webber, MD, MPH Captain, USAF, MC Trainee Health Surveillance Joint Base San Antonio – Lackland, TX

26 February 2016

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# Learning Objectives



- List the primary causes of recruit mortality in the U.S. armed forces
- Describe the impact of sickle cell trait on health outcomes in terms of relative and absolute risk
- Prioritize the response to a collapsed recruit based on the epidemiology and severity of potential causes



## **Disclaimers**



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The views expressed herein are those of the presenter and do not reflect the official policy or position of Joint Base San Antonio, the Department of the Air Force, the Department of Defense, or the U.S. Government

I or my spouse do not have, and have not had, in the last 12 months, any relevant financial or other relationship with any proprietary entity producing, marketing, re-selling or distributing health care goods or services including the manufacturer of any commercial product or device I will discuss during my presentation.



8 weeks One location 37,000 8 weeks One location 35,500 13 weeks Two locations 110,500 10 weeks Four locations

Population representation in the military services, FY 2011. http://prhome.defense.gov/RFMMPP/AP/POPREP.aspx

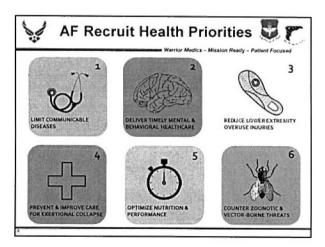


#### Agenda

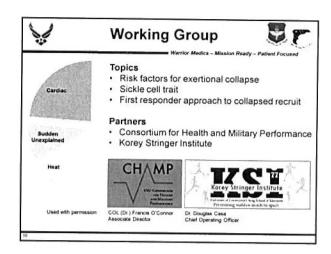


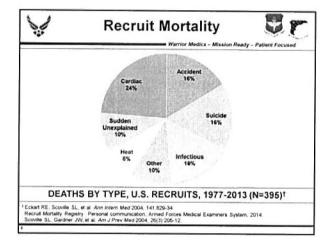
Warrior Medics - Mission Ready - Patient Focused

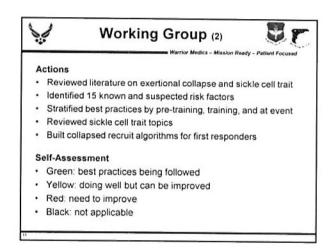
- · Learning Objectives
- · Population
- · Air Force Recruit Health Priorities
- · Recruit Mortality
- · Working Group
  - · Risk Factors for Exertional Collapse
  - · Sickle Cell Trait
  - · Collapsed Recruit Algorithms for First Responders

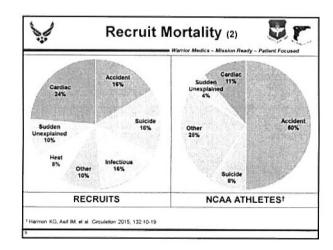


	Incidence	Severity	Impact	Total	Preventive Medicine Interventions
E	3	4	5	12	Outbreak responses; TB screening; immunigations, streptococcus prophylaxis; febrile respiratory surveillance
	4	3	4	11	Hospitalization registry; mental health attrition registry; data requests
B	5	2	4	11	Injury epidemiology; athletic trainer study, stress fracture registry; physical fitness program review;
7	1	5	2	8	Exertional collapse protocols, heat illness determination officers; sickle cell trait education; rhabdomyolysis workus
Ö	3	1	3	7	Tobacco cessation efforts; anemia studies; female multivitamin initiative; coordination with Nutrition Team
W	1	4	1	6	Bed net use; Chagas disease research; coordination of insecticide spraying and animal control activities









Risk Facto	•	se 😺 🏲		
	Pre-Training	Training	At Event	
Sickle cell trait				
Poor cardiovascular fitness	80 miles 100			
Poor health and fitness knowledge				
Underlying medical condition				
Inadequate medical assets			SERVICE STREET	
Unsafe training	5.00			
Overaggressive motivation			1 1	
Recent blood donation		Sec.		
Dehydration		UNES MUNES	1	
Tobacco use		SALE PROPERTY.	i	
Nutritional supplement use		55 W 285		
Current illness		PARTITION OF		
Lack of heat acclimatization				
Lack of exercise acclimatization				
Improper triage				

